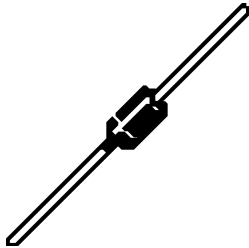


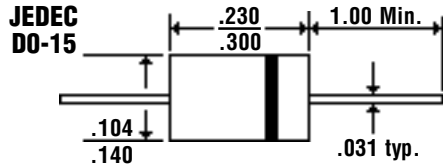
# 2.0 Amp FAST RECOVERY PLASTIC RECTIFIERS

**FR20 . . . 210 Series**

## Description



## Mechanical Dimensions



## Features

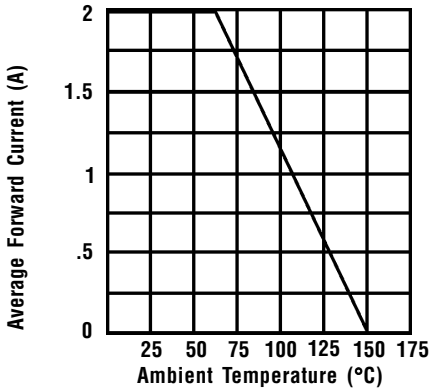
- FAST SWITCHING FOR HIGH EFFICIENCY
- HIGH SURGE CAPABILITY
- 2.0 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY
- MEETS UL SPECIFICATION 94V-0

FR20 . . . 210 Series								Units
Maximum Ratings	FR20	FR21	FR22	FR24	FR26	FR28	FR210	
Peak Repetitive Reverse Voltage... $V_{RRM}$	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... $V_{DC}$	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 55^\circ\text{C}$				2.0				Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Current & Temp				60				Amps
Operating & Storage Temperature Range... $T_J, T_{STRG}$				-65 to 150				$^\circ\text{C}$
<b>Electrical Characteristics</b>								
Maximum Forward Voltage @ 2.0A... $V_F$				1.3				Volts
Maximum DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage				5.0				$\mu\text{Amps}$
				10				$\mu\text{Amps}$
Typical Junction Capacitance... $C_j$ (Note 1)				25				pF
Maximum Reverse Recovery Time... $t_{RR}$	150	150	150	150	250	500	500	ns

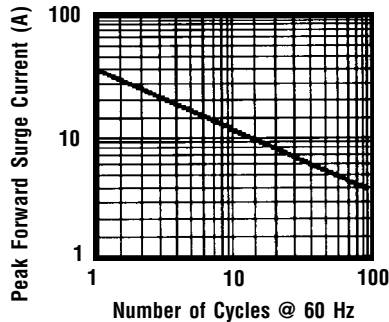
# 2.0 Amp FAST RECOVERY PLASTIC RECTIFIERS

**FR20 . . . 210 Series**

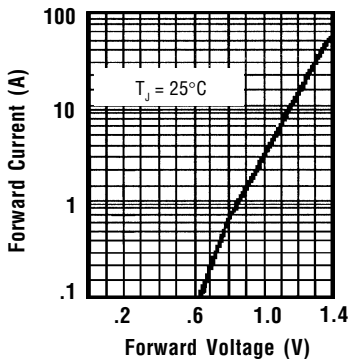
**Forward Current Derating Curve**



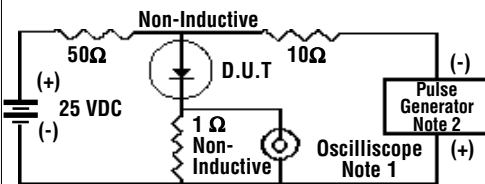
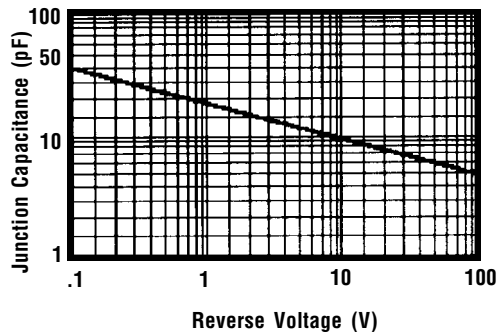
**Non-Repetitive Peak Forward Surge Current**



**Typical Instantaneous Forward Characteristics**

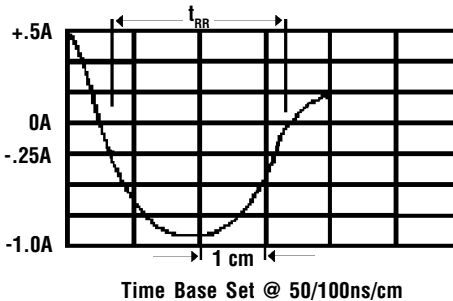


**Typical Junction Capacitance**



- Notes: 1. Rise Time = 7 ns Max.  
Impedance = 1 megohm, 22 pF  
2. Rise Time = 10 ns Max.  
Source Impedance = 50 Ohms

**Reverse Recovery Characteristics**



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 Hz Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES: 1. Measured @ 1 MHz and applied reverse voltage of 4.0V.  
2. Thermal Resistance Junction to Ambient, Jedec Method.